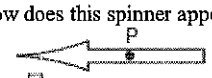
Name: _____ HW 5/3/11

1 If the letter **P** is rotated 180 degrees, which is the resulting figure?
1) **d**
2) **p**
3) **q**
4) **b**

Draw pictures / show work!

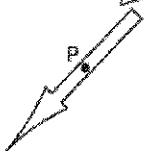
2 The accompanying diagram shows the starting position of the spinner on a board game.

How does this spinner appear after a 270° counterclockwise rotation about point *P*?

1)


2)


3)


4)


3 If point (5, 2) is rotated counterclockwise 90° about the origin, its image will be point
1) (2, 5)
2) (2, −5)
3) (−2, 5)
4) (−5, −2)

4 What are the coordinates of M', the image of $M(2, 4)$, after a counterclockwise rotation of 90° about the origin?
1) (−2, 4)
2) (−2, −4)
3) (−4, 2)
4) (−4, −2)

5 What is the image of point (8, −4) under the rotation $R_{90°}$ about the origin?
1) (8, 4)
2) (4, 8)
3) (−4, 8)
4) (−4, −8)

6 The transformation $R_{90°}$ maps point (5, 3) onto the point whose coordinates are
1) (5, −3)
2) (3, −5)
3) (3, 5)
4) (−3, 5)

7 What is the image of $A(5, 2)$ under $R_{90°}$?
1) (−5, 2)
2) (5, −2)
3) (2, 5)
4) (−2, 5)